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APPLICATION NO: FILING DATE FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,072 10/29/2003 Cynthia B. Robinson	02486.0073.NPUS01	9179
7590 07/24/2007 Wilson Sonsini Goodrich & Rosati, PC	EXAMINER	
Attn: Albert P. Halluin	RAMACHANDRAN, UMAMAHESWARI	
650 Page Mill Road Palo Alto, CA 94304-1050	ART UNIT	PAPER NUMBER
	1617	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
Office A 44 and October 19	10/698,072	ROBINSON ET AL.
Office Action Summary	Examiner	Art Unit
	Umamaheswari Ramachandran	1617
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period or - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	I: lely filed the mailing date of this communication. O (35 U.S.C. § 133)
Status		
1) Responsive to communication(s) filed on <u>04 M</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1,2 and 4-14 is/are pending in the application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) according application to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 10.	wn from consideration. r election requirement. r. epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		•
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No d in this National Stage
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Da	
2) ☐ Rolled of Draitsperson's Patent Brawning Review (FTO-948) 3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa	

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DETAILED ACTION

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Applicants' election of group I, claims 1-5, 9-17 without traverse in the reply filed on 3/6/2007 is acknowledged. Applicants' have elected the following species with traverse (received in the office on 5/4/2007). 1) non-glucocorticoid steroids---dehydroepiandrosterone-sulfate (DHEA-S) 2) cromone – cromolyn sodium 3) Ubiquinones--formula (II) claim 6, n=I 0. Claims 3, 15-18 are withdrawn from consideration. Claims 1, 2, 4-14 read on the elected species and are pending.

Response to Remarks

Applicants' have argued that non-elected species would not require a burdensome search. In response, the instant application contains claims are directed to the following patentably distinct species: the species of non-glucocorticoid steroids; the species of cromone; the species of ubiquinones; The species of non-glucocorticoid steroids, cromone, and ubiquinones are independent or distinct because they are different chemical compounds with different structures, chemical and physical properties, bioavailabilities, pharmacokinetic profiles, and pharmacological efficacy. Because the species have different structures and properties, different searches are required for each species, which presents a substantial burden to the Office. The restriction requirement is made final.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226

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(Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1, 2, 4-14 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-15 of copending Application No. 10/923,377. Although the conflicting claims are not identical, they are not patentably distinct from each other because both the instant application and the co-pending application teach a pharmaceutical composition comprising the first active agent which is one of non-glucocorticoid steroid and a second active agent which is cromone. The instant application teaches non-glucocorticoid steroid species encompassed by the genus non-glucocorticoid steroid compounds taught by the copending application. The claims (1, 2, 4-14) of the instant application fall within the scope of the claims 1-15 of the co-pending application.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1, 2, 4-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nyce (2002/0032160) in view Bell (US 4,161,516).

Nyce teach a composition and various formulations comprising the rapeutic amounts of non-glucocorticoid steroid of formula I (para 0018) wherein R1 of formula I is hydrogen or SO2OM, wherein M comprises H, Na, sulfatide etc (para 0019). The reference further teaches that the composition includes the compounds of formula I such as DHEA, analogue thereof or salt thereof such as dihydroepidandrosterone sulfate, and/or a ubiquinone of formula II (elected species) or salt thereof, and a pharmaceutically or veterinarily acceptable carrier or diluent that are useful for treating bronchoconstriction, respiratory tract inflammation, allergies, asthma etc (see Abstract, para 0023, p 7, claim 1, p 8, claims 2-7, 11 and 14, p 9, claim 52). The reference further teaches that the compositions can be administered by generating an aerosol or spray comprised of respirable, inhalable, nasal or intrapulmonary delivered particles ranging from 10 to about 100 u in size (p 8, claims 35, 37, 39). The reference further teaches a kit comprising such formulation and a delivery device, comprising an inhaler wherein the formulation comprises an inhalable, respirable, intrapulmonary or nasal formulation and the inhaler comprises a nebulizer or insufflator that delivers individual premetered doses of the formulation (p 9, claims 42, 43-47).

The reference does not teach a second agent cromone in the composition.

Bell et al. teach a pharmaceutical composition for inhalation treatment of airway disease such as asthma comprising cromolyn sodium, a cromone (col. 12, claims 1, 8, 9).

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It would have been obvious to one of ordinary skill in the art at the time of the invention to add a cromone such as cromolyn sodium in a composition comprising DHEA and ubiquinone. The motivation to do so is provided by Bell et al. Bell et al. teach a pharmaceutical composition comprising cromolyn sodium, a cromone to be useful in the treatment of asthma. One of ordinary skill in the art would have been motivated to add cromolyn sodium, a cromone to a composition comprising DHEA and ubiquinone in the treatment of a airway disease such as asthma because prior art teaches both the compositions to be useful in the treatment of asthma and one can expect success in achieving a pharmaceutical composition comprising all the three components (a nonglucocorticoid steroid, DHEA sulfate, a ubiquionone and a cromone) and further can expect additive or synergistic effects in the combination therapy of asthma. The examiner respectfully points out the following from MPEP 2144.06: "It is prima facie obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose....[T]he idea of combining them flows logically from their, having been individually taught in the prior art." In re Kerkhoven, 626 F.2d 846, 850, 205 USPQ 1069,-1072 (CCPA 1980).

Conclusion

No Claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Umamaheswari Ramachandran whose telephone

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number is 571-272-9926. The examiner can normally be reached on M-F 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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